FIG.1

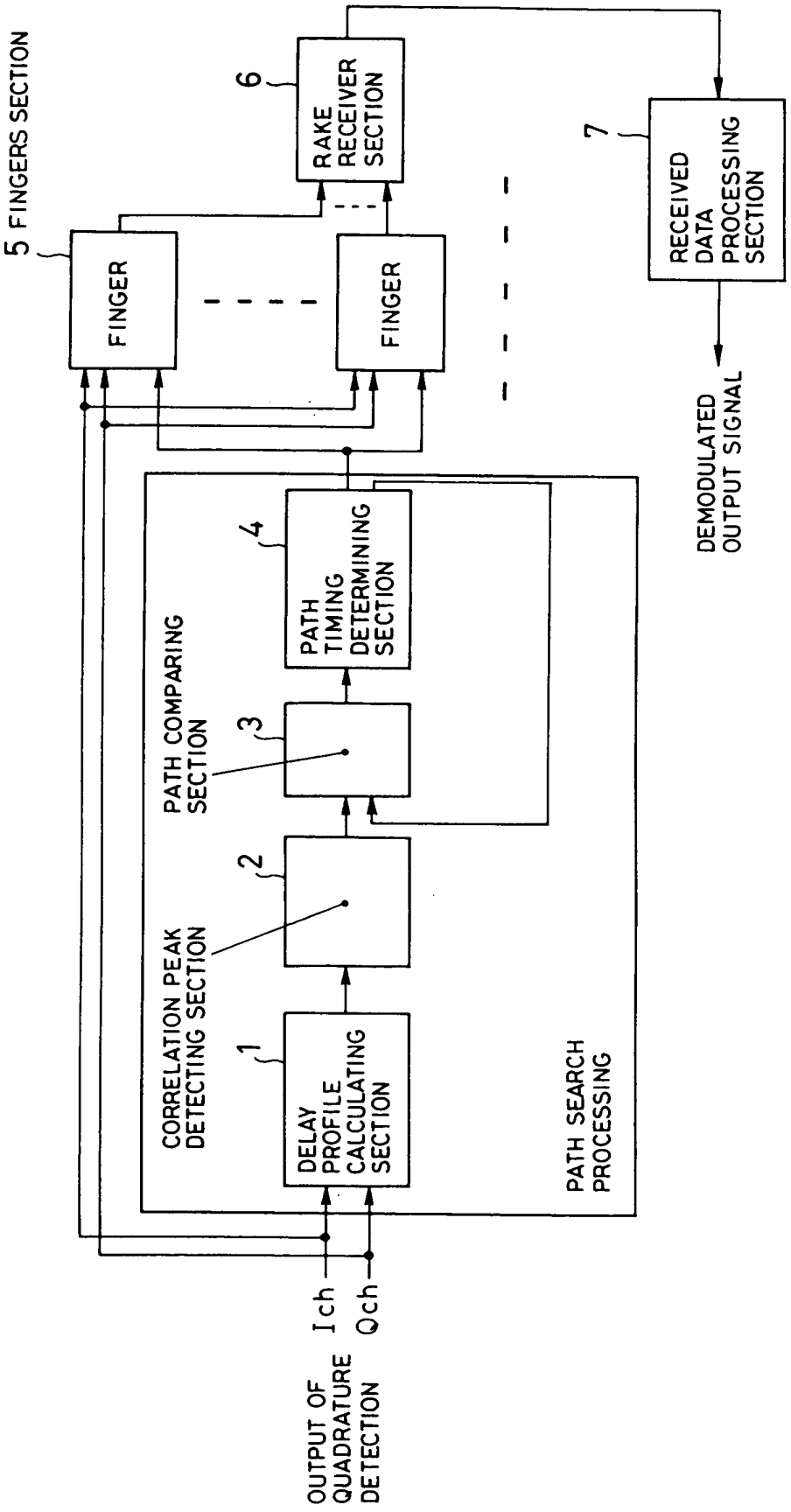

OUTPUT OF QUADRATURE DETECTION
Ich
Qch
PATH SEARCH PROCESSING
CORRELATION PEAK DETECTING SECTION
PATH COMPARING SECTION
1
DELAY PROFILE CALCULATING SECTION
2
3
4
PATH TIMING DETERMINING SECTION
5 FINGERS SECTION
FINGER
FINGER
6
RAKE RECEIVER SECTION
7
RECEIVED DATA PROCESSING SECTION
DEMODULATED OUTPUT SIGNAL

FIG. 2

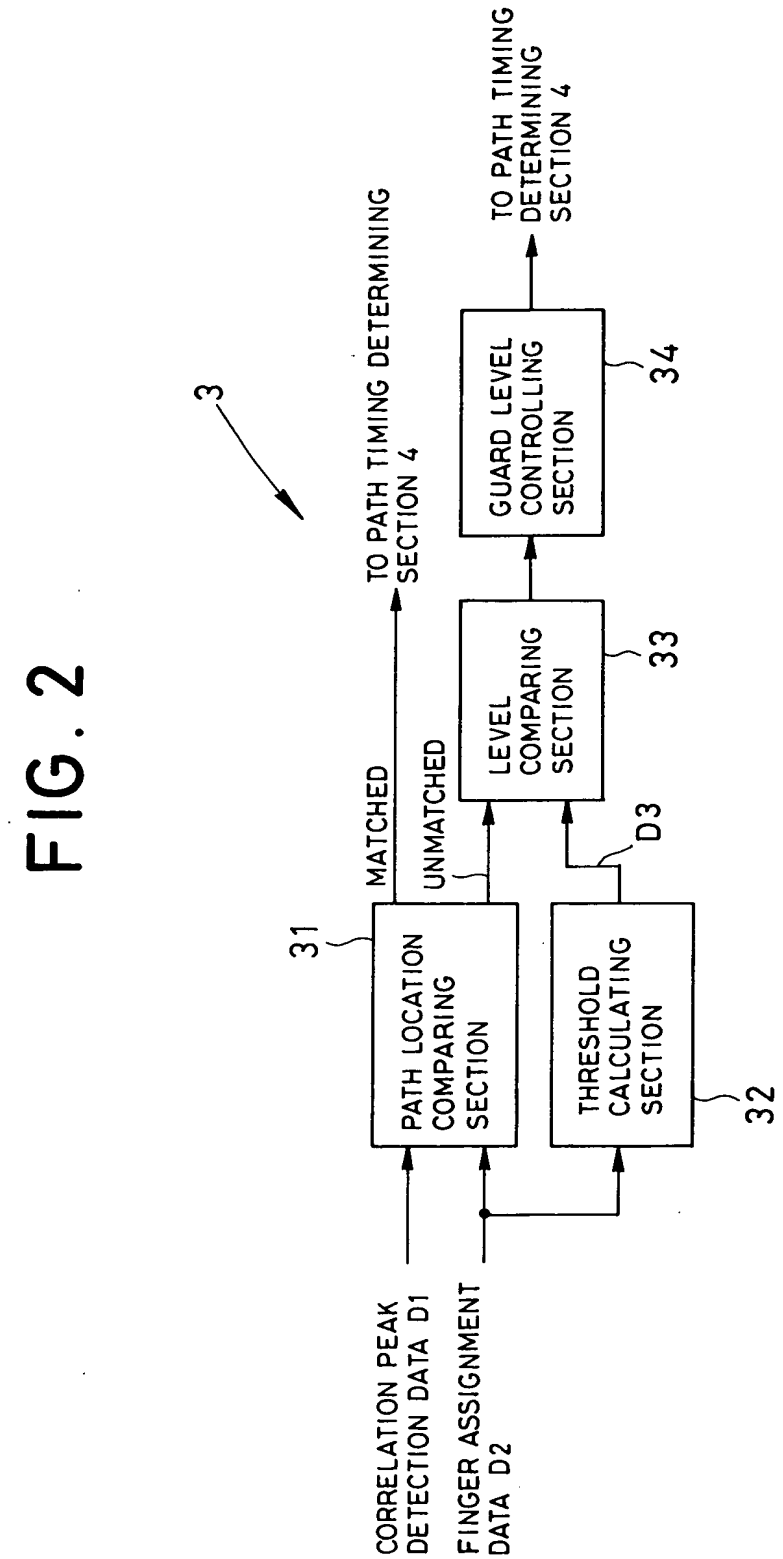

3
31
PATH LOCATION COMPARING SECTION
THRESHOLD CALCULATING SECTION
32
LEVEL COMPARING SECTION
33
GUARD LEVEL CONTROLLING SECTION
34
MATCHED
UNMATCHED
D3
TO PATH TIMING DETERMINING SECTION 4
TO PATH TIMING DETERMINING SECTION 4
CORRELATION PEAK DETECTION DATA D1
FINGER ASSIGNMENT DATA D2

FIG. 3

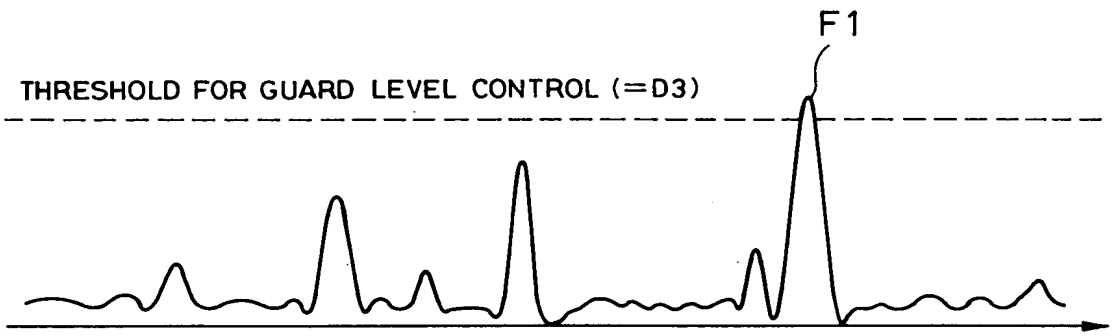


FIG. 4

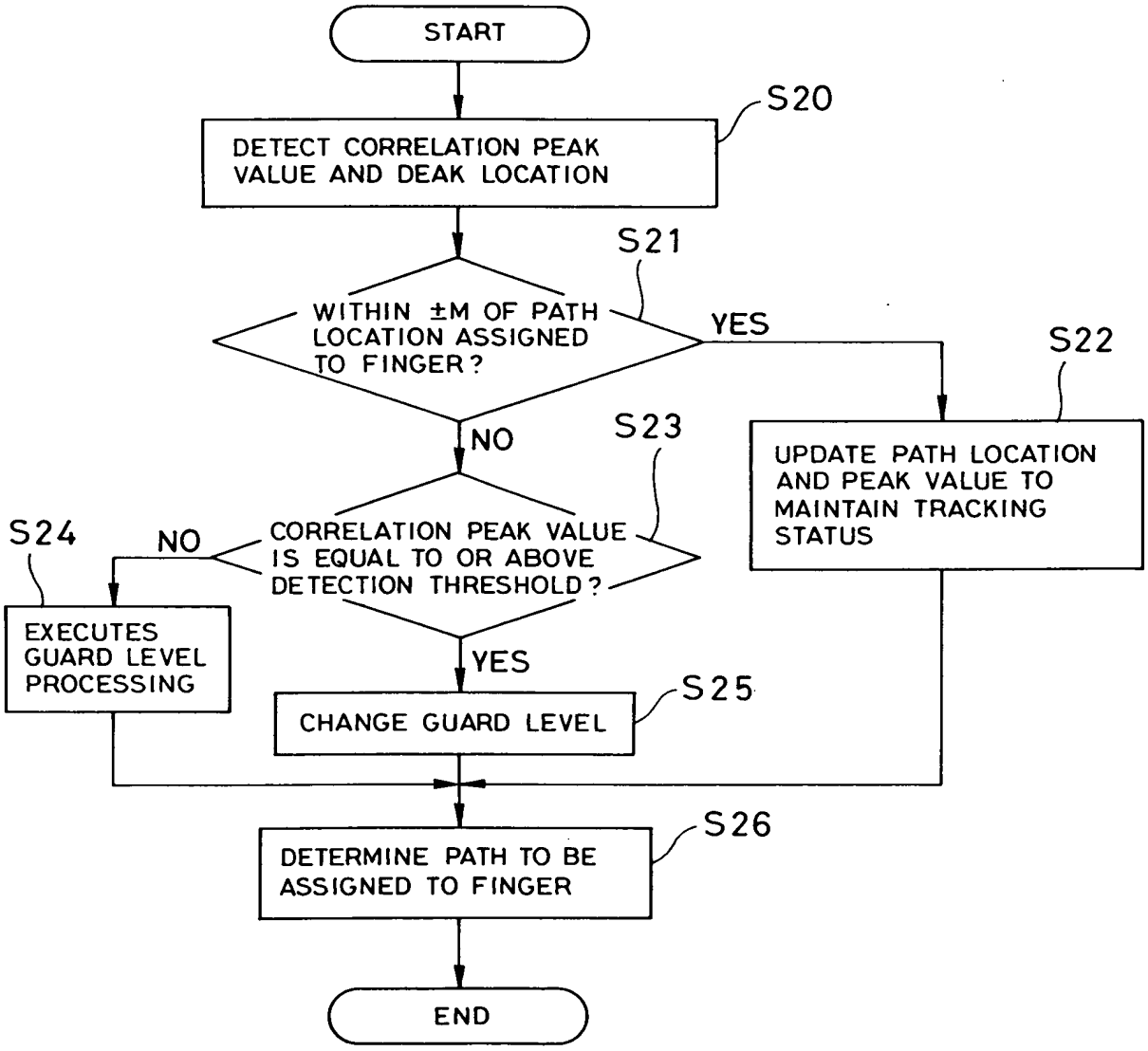

START
S20
DETECT CORRELATION PEAK VALUE AND DEAK LOCATION
S21
WITHIN ±M OF PATH LOCATION ASSIGNED TO FINGER?
YES
S22
UPDATE PATH LOCATION AND PEAK VALUE TO MAINTAIN TRACKING STATUS
NO
S23
CORRELATION PEAK VALUE IS EQUAL TO OR ABOVE DETECTION THRESHOLD?
S24
NO
EXECUTES GUARD LEVEL PROCESSING
YES
S25
CHANGE GUARD LEVEL
S26
DETERMINE PATH TO BE ASSIGNED TO FINGER
END

FIG.5

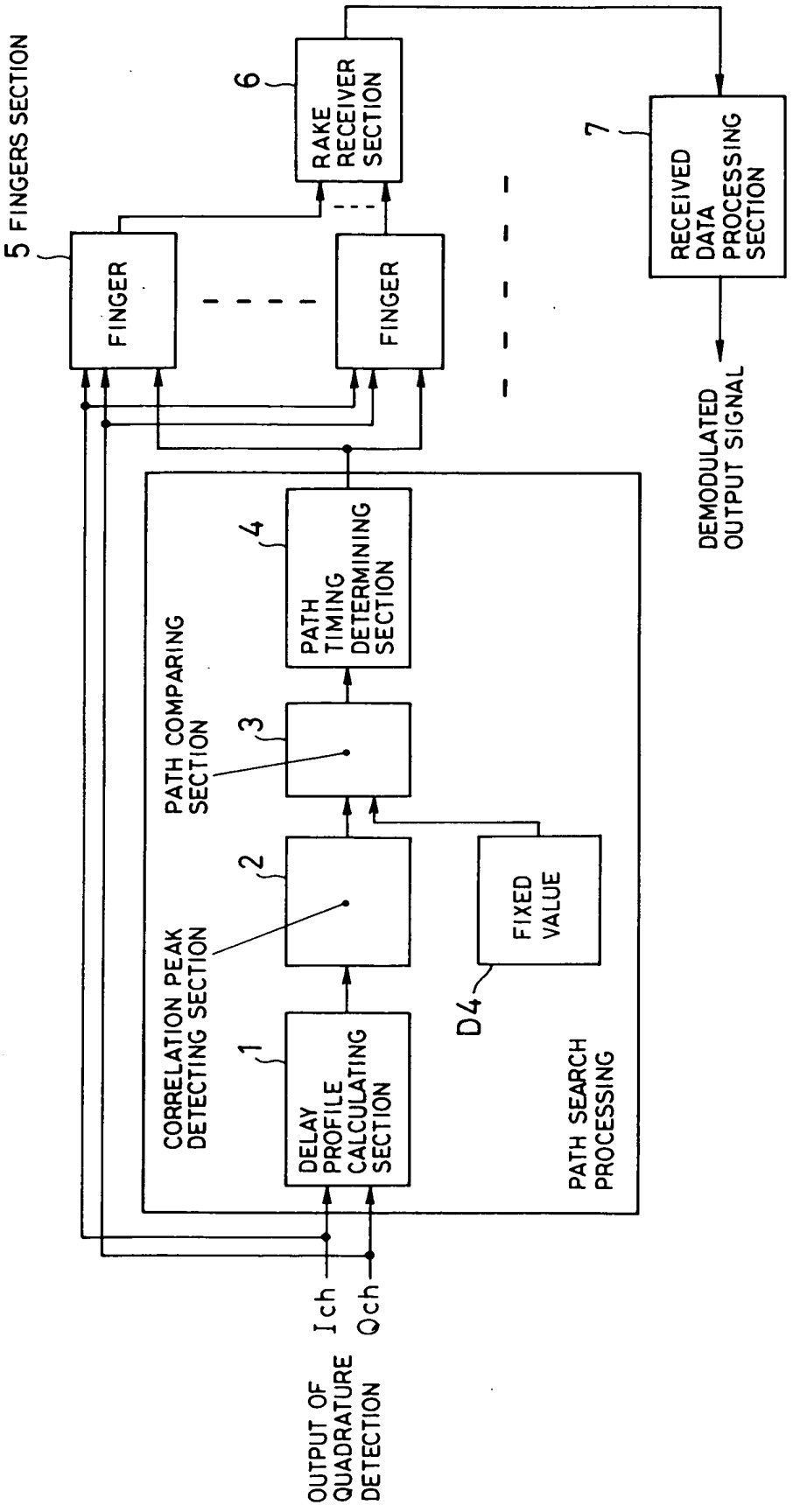

5 FINGERS SECTION
FINGER
FINGER
6
RAKE RECEIVER SECTION
7
RECEIVED DATA PROCESSING SECTION
DEMODULATED OUTPUT SIGNAL
PATH COMPARING SECTION
4
PATH TIMING DETERMINING SECTION
3
CORRELATION PEAK DETECTING SECTION
2
FIXED VALUE
D4
1
DELAY PROFILE CALCULATING SECTION
PATH SEARCH PROCESSING
Ich
Qch
OUTPUT OF QUADRATURE DETECTION

FIG.6

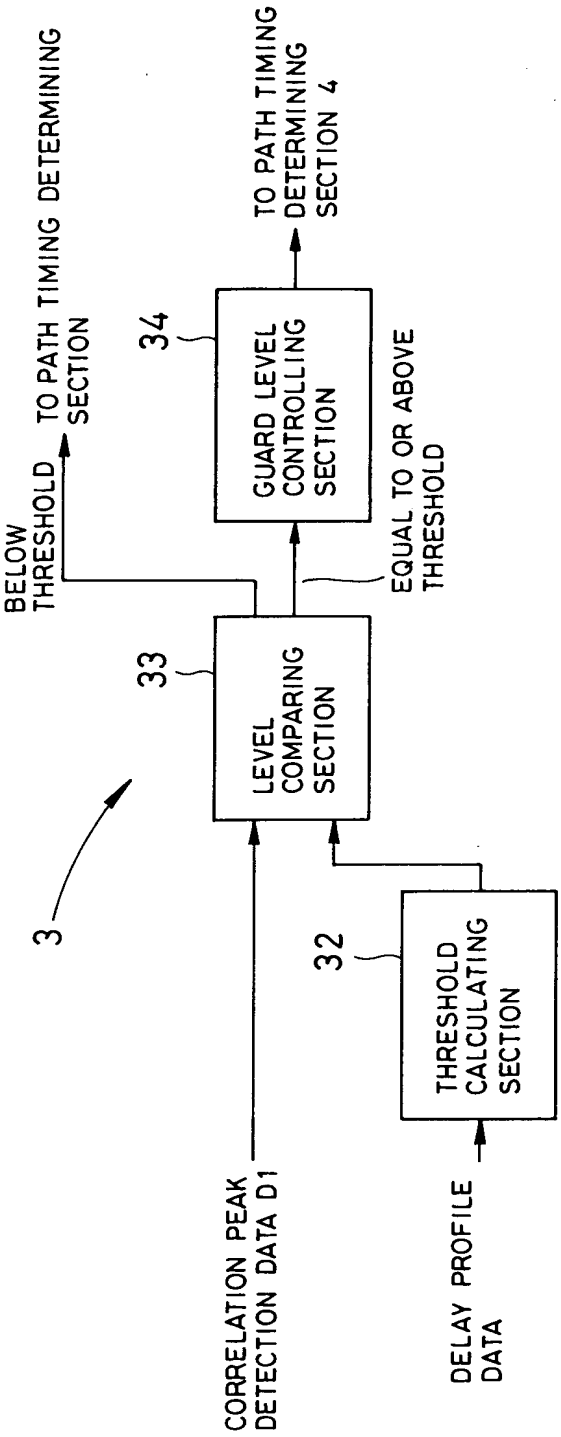
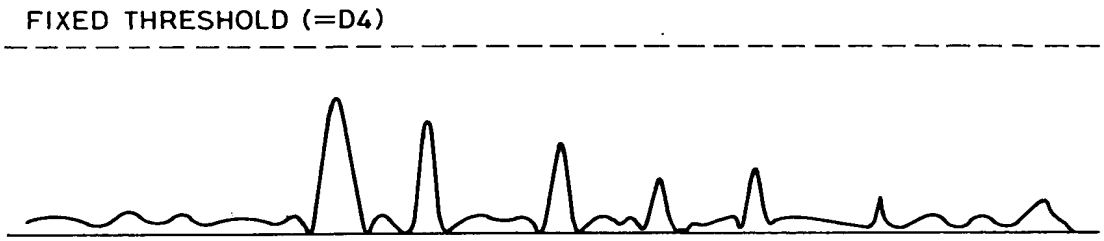
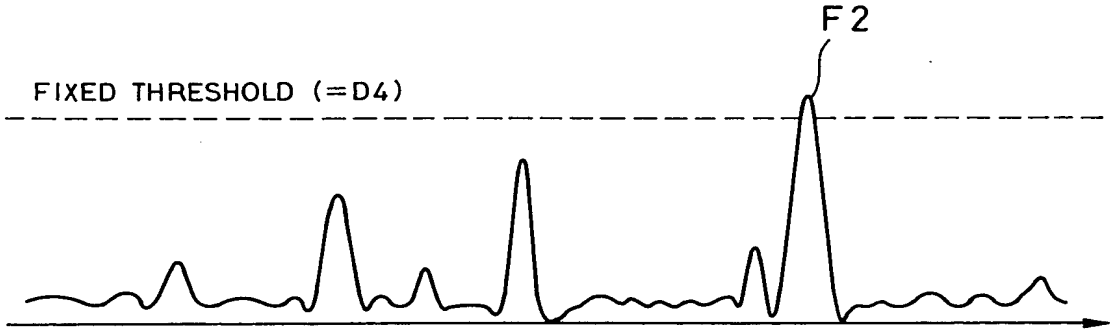

3
LEVEL COMPARING SECTION
33
GUARD LEVEL CONTROLLING SECTION
34
THRESHOLD CALCULATING SECTION
32
BELOW THRESHOLD
TO PATH TIMING DETERMINING SECTION
EQUAL TO OR ABOVE THRESHOLD
TO PATH TIMING DETERMINING SECTION 4
CORRELATION PEAK DETECTION DATA D1
DELAY PROFILE DATA

FIG. 7



DELAY PROFILE OF THE PREVIOUS CYCLE

FIG. 8



DELAY PROFILE

FIG. 9

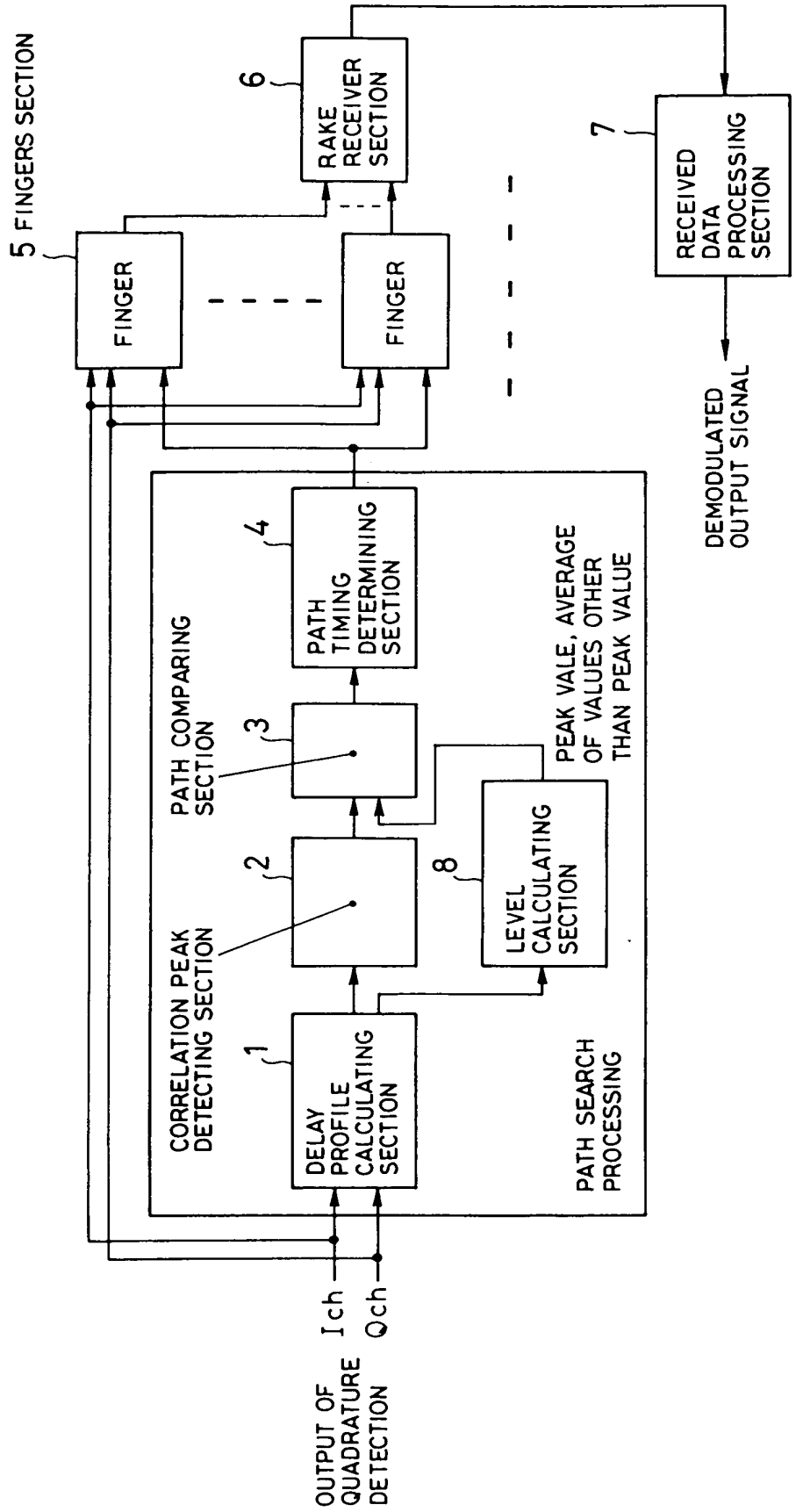

OUTPUT OF QUADRATURE DETECTION
Ich
Qch
PATH SEARCH PROCESSING
CORRELATION PEAK DETECTING SECTION
PATH COMPARING SECTION
PEAK VALE, AVERAGE OF VALUES OTHER THAN PEAK VALUE
1
DELAY PROFILE CALCULATING SECTION
2
3
4
PATH TIMING DETERMINING SECTION
8
LEVEL CALCULATING SECTION
5 FINGERS SECTION
FINGER
FINGER
6
RAKE RECEIVER SECTION
7
RECEIVED DATA PROCESSING SECTION
DEMODULATED OUTPUT SIGNAL

FIG.10

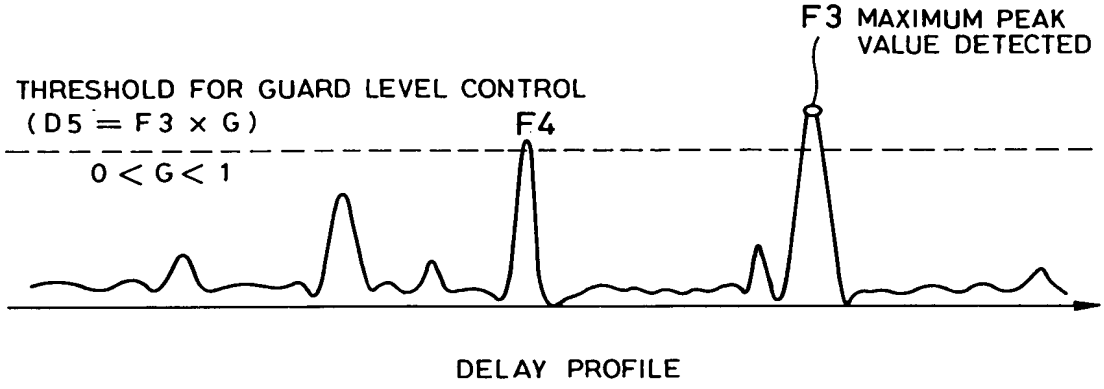

F3 MAXIMUM PEAK VALUE DETECTED
THRESHOLD FOR GUARD LEVEL CONTROL
(D5 = F3 × G)
F4
0 < G < 1
DELAY PROFILE

FIG.11

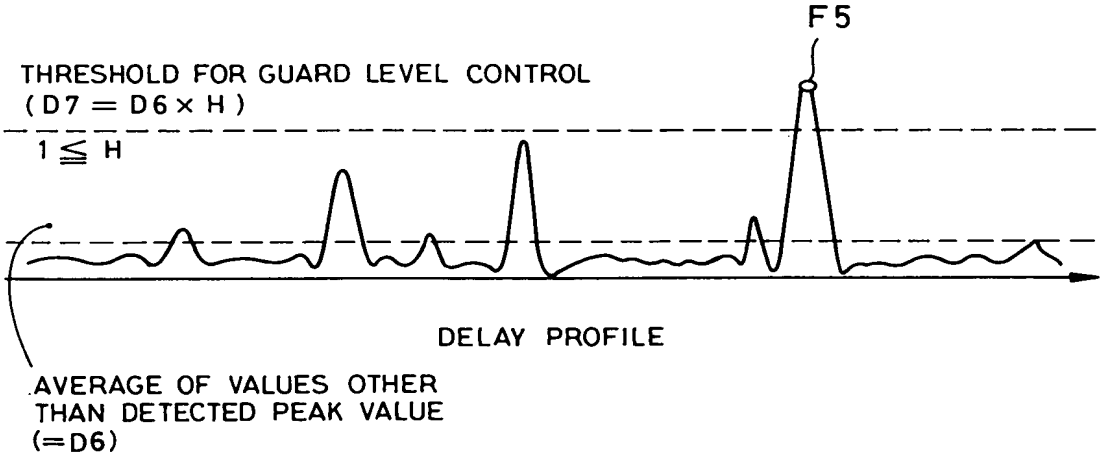

F5
THRESHOLD FOR GUARD LEVEL CONTROL
(D7 = D6 × H)
1 ≦ H
DELAY PROFILE
AVERAGE OF VALUES OTHER
THAN DETECTED PEAK VALUE
(=D6)

FIG.12

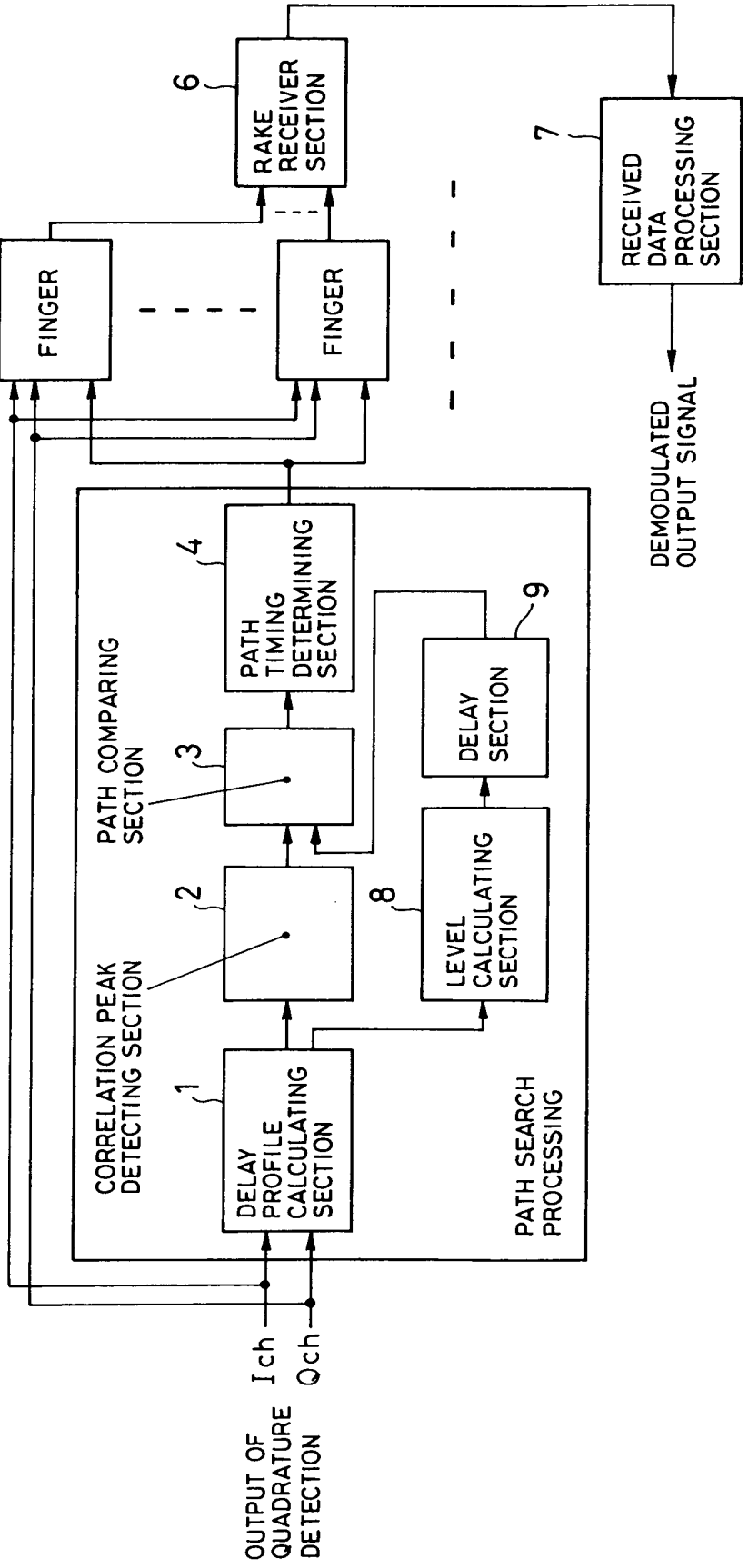

5 FINGERS SECTION
FINGER
FINGER
6
RAKE RECEIVER SECTION
7
RECEIVED DATA PROCESSING SECTION
DEMODULATED OUTPUT SIGNAL
4
PATH TIMING DETERMINING SECTION
9
DELAY SECTION
PATH COMPARING SECTION
3
2
8
LEVEL CALCULATING SECTION
CORRELATION PEAK DETECTING SECTION
1
DELAY PROFILE CALCULATING SECTION
PATH SEARCH PROCESSING
Ich
Qch
OUTPUT OF QUADRATURE DETECTION

FIG.13

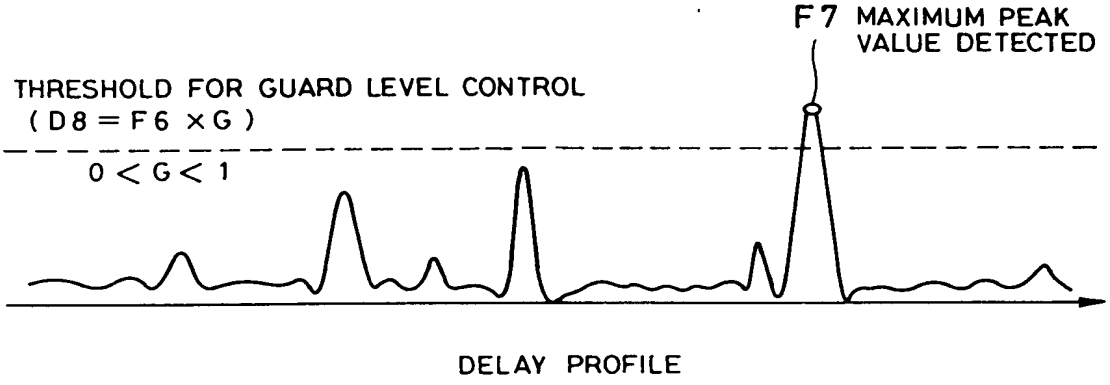

F7 MAXIMUM PEAK VALUE DETECTED
THRESHOLD FOR GUARD LEVEL CONTROL
(D8 = F6 × G)
0 < G < 1
DELAY PROFILE

FIG.14

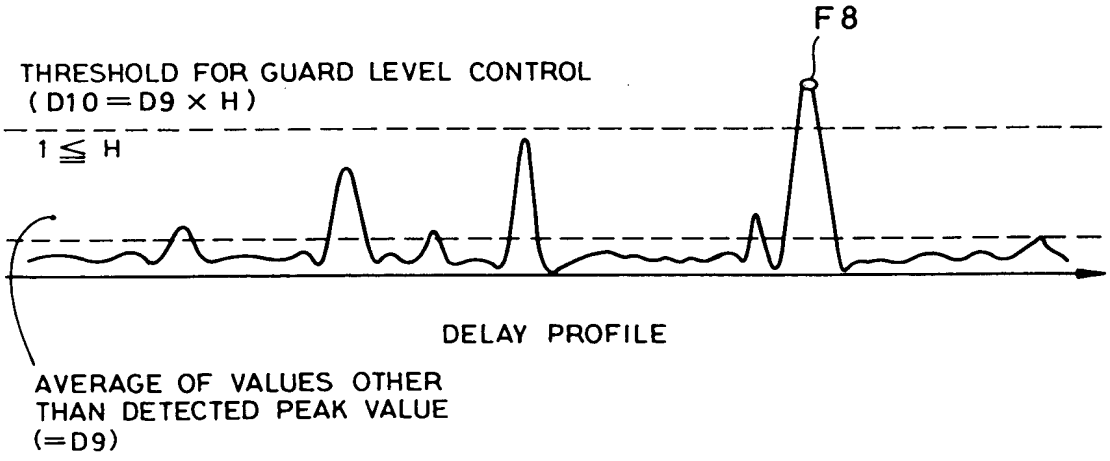

F8
THRESHOLD FOR GUARD LEVEL CONTROL
(D10 = D9 × H)
1 ≦ H
DELAY PROFILE
AVERAGE OF VALUES OTHER THAN DETECTED PEAK VALUE
(=D9)

FIG.15

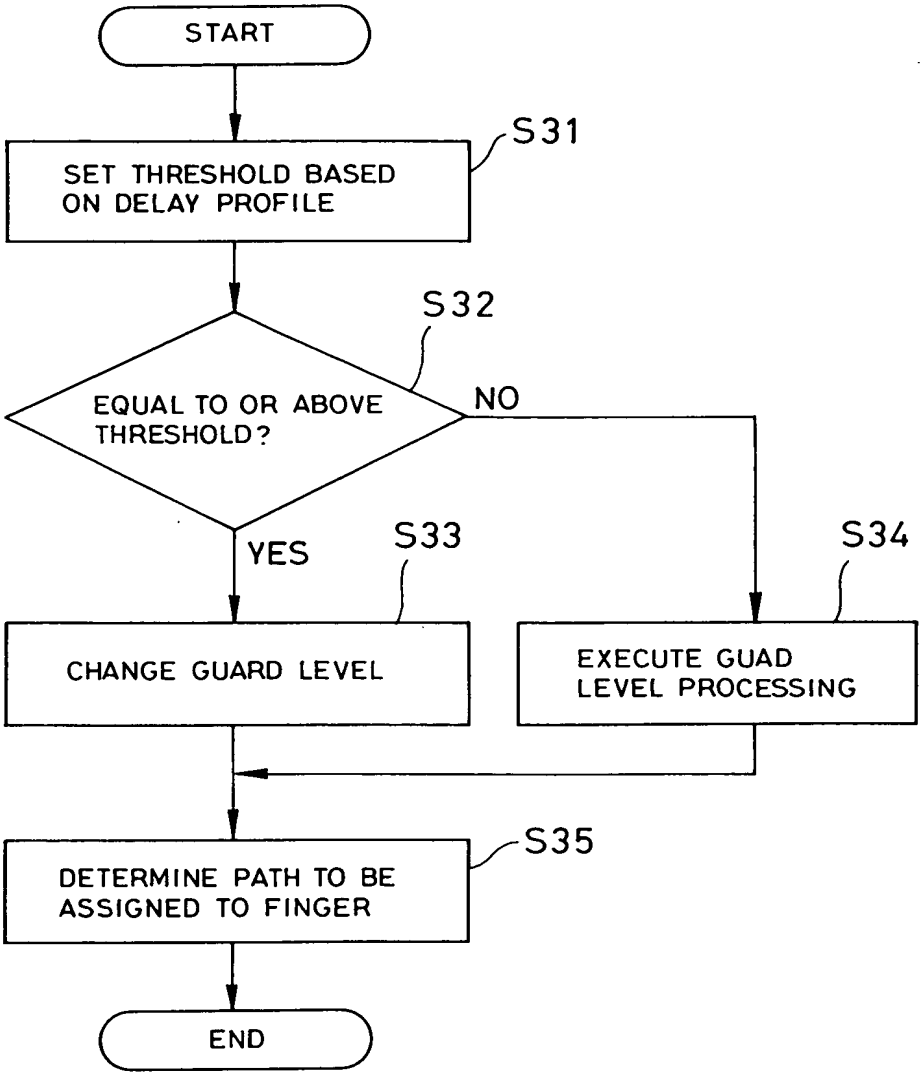
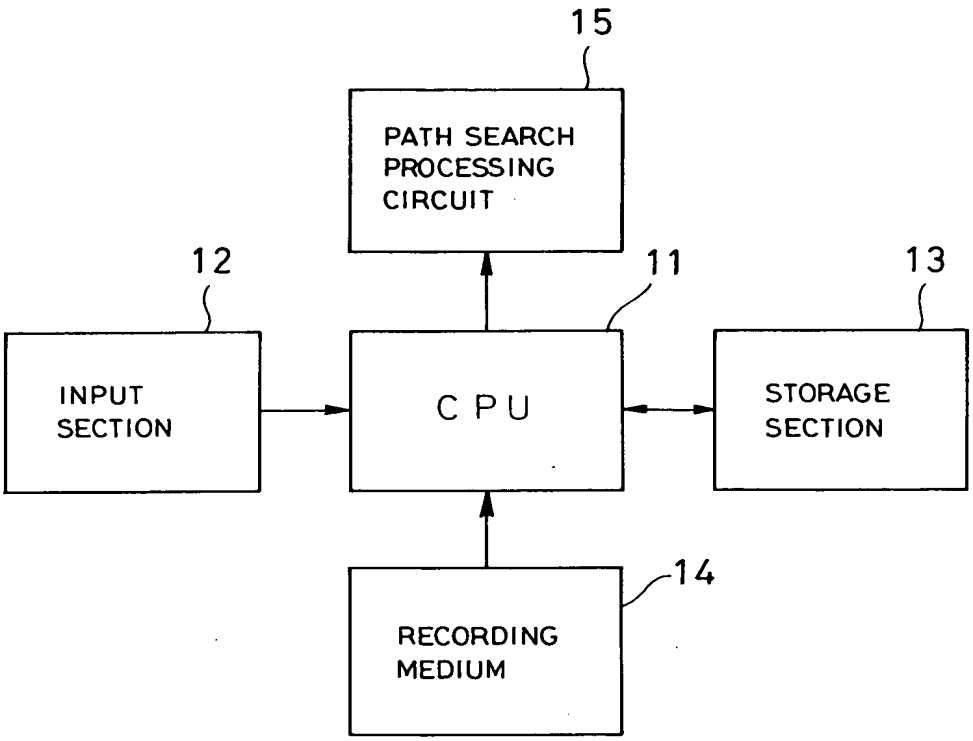

START
SET THRESHOLD BASED ON DELAY PROFILE
S31
S32
EQUAL TO OR ABOVE THRESHOLD?
NO
YES
S33
S34
CHANGE GUARD LEVEL
EXECUTE GUAD LEVEL PROCESSING
DETERMINE PATH TO BE ASSIGNED TO FINGER
S35
END

FIG.16


15
PATH SEARCH PROCESSING CIRCUIT
12
11
13
INPUT SECTION
C P U
STORAGE SECTION
14
RECORDING MEDIUM